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Title: A shock-absorbing and fastening device for a reading mechanism in a hard disk drive

Abstract : (The reference numbers are added by our side.)

A shock-absorbing and fastening device (100) for a reading mechanism in a hard disk drive is used to balance the gravity center of, absorb shock from and fasten an optical reading mechanism (20). The device (100) includes a frame (10) and a plurality of balancing plates (50). The frame (10) receives and fastens the optical reading mechanism (20) therein. At least a resilient shock-absorbing element (30) is provided at each joint between the optical reading mechanism (20) and frame (10). The balancing plates (50) are secured between two ends of the optical reading mechanism (20) and the frame (10). At least a resilient shock-absorbing element (30) is also provided at each joint between the balancing plates (50) and frame (10). By means of the arrangement described above, a pick-up head in the optical reading mechanism (20) for picking up an optical signal can keep balance and reduce vibration during movement.